

FORM PTO-1449

Atty Docket
0652.1350000Serial No.
08/249,671Applicant
Hauptmann et al.Filing Date
May 26, 1994Group 18121646
To Be Assigned

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
02	AA1	5,196,323	3/23/93	Bodo et al.	435	69.51	6/12/91
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FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Trans-lation
02	AL1	0 115 613	08/15/84	Europe			Abstract
02	AM1	WO 89/03225	04/20/89	PCT			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

02	AR	1	Adolf, G.R., Monoclonal Antibodies and Enzyme Immunoassays Specific for Human Interferon(INF) ω 1: Evidence that IFN- ω 1 is a Component of Human Leukocyte IFN, Virology 175:410-417 (1990)				
	AS	1	Beltz et al., Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods, Meth. Enzymol. 100:266-285 (1983)				
	AT	1	Bodo & Maurer-Fogy, Molecular Species of Recombinant Human Interferon Alpha 2 Detected in Affinity Purified Preparations. In: The Biology of the Interferon System (ed. Stewart, W.E., II Schellekens, H.), Elsevier Scientific Publishing Co., Amsterdam, pp. 59-64 (1985)				

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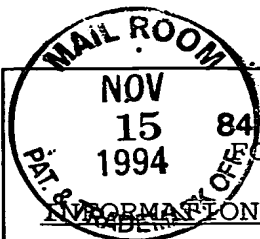
DAVID L. FITZGERALD
PATENT EXAMINER

Date Considered

9/26/95

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Atty Docket
0652.1350000Serial No.
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May 26, 1994Group *18*
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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AR</i>	AR	<u>2</u>	Breitling et al., Secretory expression in <i>Escherichia coli</i> and <i>Bacillus subtilis</i> of human interferon α genes directed by staphylokinase signals, <i>Mol. Gen. Genet.</i> 217:384-391 (1989)
<i>AS</i>	AS	<u>2</u>	Chang et al., Nucleotide sequence of the alkaline phosphatase gene of <i>Escherichia coli</i> , <i>Gene</i> 44:121-125 (1986)
<i>AT</i>	AT	<u>2</u>	Derwent World Patent Index, English language abstract of European Patent 0 115 613.

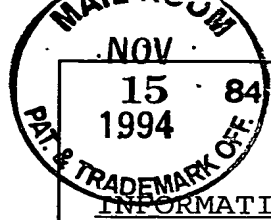
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To Be Assigned 1646

INFORMATION DISCLOSURE STATEMENT

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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22	AR	3	Dworkin-Rastl et al., Construction of expression plasmids producing high levels of human leukocyte-type interferon in <i>Escherichia coli</i> , <i>Gene</i> 21:237-248 (1983)
	AS	3	Fuh et al., The Human Growth Hormone Receptor, <i>J. Biol. Chem.</i> 265(6):3111-3115 (1990)
W	AT	3	Goeddel et al., Human leukocyte interferon produced by <i>E. coli</i> is biologically active, <i>Nature</i> 287:411-416 (1980)

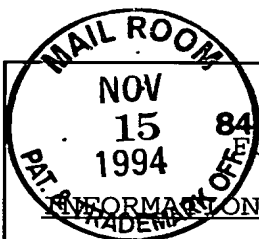
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Goeddel et al., The structure of eight distinct cloned human leukocyte interferon cDNAs, Nature 290:20-26 (1981)
	AS	<u>4</u>	Hauptmann & Swetly, A novel class of human type I interferons, Nucl. Acid Res. 13(13):4739-4749 (1985)
	AT	<u>4</u>	Ho et al., Site-directed mutagenesis by overlap extension using the polymerase chain reaction, Gene 77:51-59 (1989)

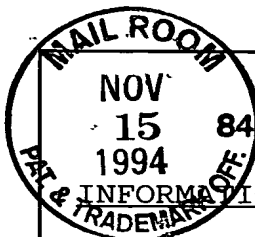
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PATENT EXAMINER

Date Considered

5/16/91

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 Atty Docket
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 Serial No.
08/249,671

 Applicant
Hauptmann et al.

 Filing Date
May 26, 1994

 Group 1872
To Be Assigned 1646

U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>5</u>	Kafatos et al., Determination of nucleic acid sequence homologies and relative concentrations by a dot hybridization procedure, <i>Nucl. Acids Res.</i> 7(6):1541-1552 (1979)
AS	<u>5</u>	Lee et al., Characterization of Gene Encoding Heat-Stable Toxin II and Preliminary Molecular Epidemiological Studies of Enterotoxigenic <i>Escherichia coli</i> Heat-Stable Toxin II Producers, <i>Infection and Immunity</i> 42(1):264-268 (1983)
AT	<u>5</u>	Mantei et al., The nucleotide sequence of cloned human leukocyte interferon cDNA, <i>Gene</i> 10:1-10 (1980)

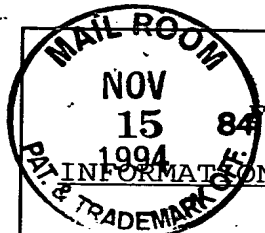
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PATENT EXAMINER

Date Considered

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	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	6	Owen & Pitcher, Current Methods for Estimating DNA Base Composition and Levels of DNA-DNA Hybridization, <i>Chemical Methods in Bacterial Systematics</i> , pp.67-93 (1985)
AS	6	Picken et al., Nucleotide Sequence of the Gene for Heat-Stable Enterotoxin II of <i>Escherichia coli</i> , <i>Infection and Immunity</i> 42(1):269-275 (1983)
AT	6	Shuttleworth et al., Sequence of the gene for alkaline phosphatase from <i>Escherichia coli</i> JM83, <i>Nucl. Acid Res.</i> 14(2):8689 (1986)

Examiner

DAVID L. FITZGERALD
PATENT EXAMINER
GROUP 1200

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

MAIL ROOM NOV 15 1994 PTO-1449 INFORMATION DISCLOSURE STATEMENT	Atty Docket 0652.1350000	Serial No. 08/249,671
	Applicant Hauptmann et al.	
	Filing Date May 26, 1994	Group 1873 To Be Assigned 1646



U.S. PATENT DOCUMENTS


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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	7	Streuli et al., At Least Three Human Type α Interferons: Structure of $\alpha 2$, Science 209:1343-1347 (1980)
	AS	7	Thatcher & Panayotatos, Purification of Recombinant Human IFN- $\alpha 2$, Methods Enzymol. 119:166-177 (1986)
	AT	7	Twigg and Sherratt, Trans-complementable copy-number mutants of plasmid ColE1, Nature 283:216-218 (1980)

Examiner 	DAVID L. FITZGERALD PATENT EXAMINER GROUP 1800	Date Considered 9/26/95
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